

|                               |                 |                       |  |
|-------------------------------|-----------------|-----------------------|--|
| <b>Notice of Allowability</b> | Application No. | Applicant(s)          |  |
|                               | 09/683,762      | LACEY, HERBERT LYVIRN |  |
|                               | Examiner        | Art Unit              |  |
|                               | Nabil M El-Hady | 2154                  |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/23/2004.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 11 February 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date <u>12/22/2004</u>.</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
|---|---|

*N. El-Hady*

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Phillip D. Mancini, Reg. No. 46,743 on December 22, 2004.

2. The application has been amended as follows:

In the claims:

I. Claim 1 is amended to read:

1. (Currently Amended) A method for parsing multiple-frame protocol messages, comprising the steps of:

receiving a frame of data from a remote ATU, wherein the frame of data contains a segment of a multi-frame protocol message;

inserting the information contained within the received frame into a data buffer;

determining whether the data in the data buffer constitutes a complete message;

extracting the complete message from the data buffer if it is determined that the data in the data buffer does constitute a complete message;

sending a continuation message to the remote ATU if it is determined that the data in the data buffer does not constitute a complete message;

Art Unit: 2154

receiving a next message frame from the remote ATU sent in response to the continuation message;

concatenating the information contained within the next message frame onto the data within the data buffer; and

determining, based on the concatenated data, whether the data in the data buffer constitutes a complete message.

II. Claim 2 is amended to read:

2. (Currently Amended) The method of claim 1, further comprising the steps of:

sending a continuation message to the remote ATU if it is determined that the concatenated data in the data buffer does not constitute a complete message; and

extracting the complete message from the data buffer if it is determined that the concatenated data in the data buffer does constitute a complete message.

III. Claim 6 is amended to read:

6. (Currently Amended) A system for parsing multiple-frame protocol messages, comprising:

means for receiving a frame of data from a remote ATU, wherein the frame of data contains a segment of a multi-frame protocol message;

means for inserting the information contained within the received frame into a data buffer;

means for determining whether the data in the data buffer constitutes a complete message;

Art Unit: 2154

means for extracting the complete message from the data buffer if it is determined that the data in the data buffer does constitute a complete message;

means for sending a continuation message to the remote ATU if it is determined that the data in the data buffer does not constitute a complete message;

means for receiving a next message frame from the remote ATU sent in response to the continuation message;

means for concatenating the information contained within the next message frame onto the data within the data buffer; and

means for determining, based on the concatenated data, whether the data in the data buffer constitutes a complete message.

IV. Claim 7 is amended to read:

7. (Currently Amended) The system of claim 6, further comprising:

means for sending a continuation message to the remote ATU if it is determined that the concatenated data in the data buffer does not constitute a complete message; and

means for extracting the complete message from the data buffer if it is determined that the concatenated data in the data buffer does constitute a complete message.

V. Claim 11 is amended to read:

11. (Currently Amended) A computer readable medium incorporating instructions for parsing multiple-frame protocol messages, the instructions comprising:

one or more instructions for receiving a frame of data from a remote ATU, wherein the frame of data contains a segment of a multi-frame protocol message;

Art Unit: 2154

one or more instructions for inserting the information contained within the received frame into a data buffer;

one or more instructions for determining whether the data in the data buffer constitutes a complete message;

one or more instructions for extracting the complete message from the data buffer if it is determined that the data in the data buffer does constitute a complete message;

one or more instructions for sending a continuation message to the remote ATU if it is determined that the data in the data buffer does not constitute a complete message;

one or more instructions for receiving a next message frame from the remote ATU sent in response to the continuation message;

one or more instructions for concatenating the information contained within the next message frame onto the data within the data buffer; and

one or more instructions for determining, based on the concatenated data, whether the data in the data buffer constitutes a complete message.

VI. Claim 12 is amended to read:

12. (Currently Amended) The computer readable medium of claim 11, the instructions further comprising:

one or more instructions for sending a continuation message to the remote ATU if it is determined that the concatenated data in the data buffer does not constitute a complete message; and

one or more instructions for extracting the complete message from the data buffer if it is determined that the concatenated data in the data buffer does constitute a complete message.

Art Unit: 2154

3. The following is an examiner's statement of reasons for allowance: None of the prior art in record taken alone or in combination discloses whether the data in the data buffer constitutes a complete message is determined not by looking just at the current frame, but rather by concatenating a subsequently received frame to already received frames in the data buffer and determining after concatenating and based on the concatenated data if the data in the buffer constitutes a complete message.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nabil M El-Hady whose telephone number is (571) 272-3963. The examiner can normally be reached on 9:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2154

December 22, 2004

  
Nabil El-Hady, Ph.D, M.B.A.  
Primary Patent Examiner  
Art Unit 2154